

CLAIM AMENDMENTS

IN THE CLAIMS

This listing of the claims will replace all prior versions, and listing, of claims in the application or previous response to office action:

Claims 1-22 (Cancelled).

Claim 23 (**Currently Amended**): A method for transmitting control parameters (~~KN, PN, RV~~) on a physical channel [[PK]] between a mobile radio device and a base station in a cellular network, comprising:

~~including providing~~ with the control parameters (~~KN, PN, RV~~) a packet number [[PN]] for identifying a data packet; and

source coding, via a source coding device, the packet number (~~PN~~) ~~at least~~ together with ~~a further at least one further of the~~ control parameters ~~parameter~~ (~~KN, RV~~) for the transmission,

wherein the control parameters (~~KN, PN, RV~~) are used for controlling a packet-oriented data transmission between the mobile radio device and the base station; and

transmitting, via a transmission device, the at least one further of the control parameter and the packet number between the mobile radio device and the base station.

Claim 24 (**Currently Amended**): The method according to claim 23, further comprising:

implementing by a temporal distribution of the same physical channel [[PK]], a plurality of different time channels (~~K1, ..., K6~~) available for sending data packets; and

re-transmitting a data packet ~~packets~~ on one of the plurality of different time channels ~~a time channel~~ (~~K1, ..., K6~~) using a transmitting device in each instance, until the transmitting device receives a confirmation signal (~~ACK~~) from a receiving device.

Claim 25 (**Currently Amended**): The method according to claim 24, further comprising including with the at least one further control parameter $[(KN)]$ the channel number $[(KN)]$ of the one of the plurality of different time channels ~~channel~~ $(K1, \dots, K6)$, in which the data packet in question is sent.

Claim 26 (**Currently Amended**): The method according to claim 24, further comprising using ~~so many different~~ at most so many different ones of the time channels ~~$(K1, K2, K3)$ as a maximum that the~~ such that a sum of the transmission time intervals ~~$(TT1)$ of the~~ available different ones of the time channels ~~$(K1, K2, K3)$~~ covers a round-trip time span ~~(TRT)~~ , at the end of which a re-transmission after a previous transmission can take place at the earliest on a specific one of the plurality of different time channels ~~channel~~ $(K1, K2, K3)$ ~~after a previous transmission~~.

Claim 27 (Previously Presented): The method according to claim 24, wherein a number of re-transmissions of a data packet are superimposed to decode a data packet.

Claim 28 (**Currently Amended**): The method according to claim 27, wherein an incremental redundancy method is used during the data transmission and $[[a]]$ at least one further control parameter $[(RV)]$ includes a redundancy version indicator $[(RV)]$.

Claim 29 (**Currently Amended**): The method according to claim 24, wherein the data transmission takes place by means of a multi-channel HARQ transmission method ~~(KN, PN, RV)~~ and at least one further control parameter includes an HARQ parameter.

Claim 30 (**Currently Amended**): The method according to claim 24, wherein different numbers of packet numbers $[(pi)]$ are assigned to different time channels ~~$(K1, \dots, K6)$~~ , which are available for identifying a data packet on the time channel ~~$(K1, \dots, K6)$~~ in question.

Claim 31 (**Currently Amended**): The method according to claim 28, wherein different numbers of redundancy version indicators $[[RV]]$ are assigned to different time channels of the time channels ~~(K1, ..., K6)~~, which are available for signaling the redundancy version of a data packet transmission on the time channel ~~(K1, ..., K6)~~ **in question**.

Claim 32 (**Currently Amended**): The method according to claim 24, wherein the number of packet numbers $[[pi]]$ and/or number of redundancy version indicators $[[RV]]$ of at least one of the time channels ~~(K1, ..., K6)~~ is/are variable.

Claim 33 (**Currently Amended**): The method according to claim 32, wherein the number of redundancy version indicators $[[RV]]$ of the time channel in question is modified according to a predefined sequence at specific time intervals.

Claim 34 (**Currently Amended**): The method according to claim 24, wherein the number of packet numbers $[[pi]]$ and/or number of redundancy version indicators $[[RV]]$ of at least one of the time channels ~~(K1, ..., K6)~~ is/are selected in each instance as a function of the current transmission situation.

Claim 35 (**Currently Amended**): The method according to claim 23, wherein transmission resources are allocated to a specific transmitting device taking into account the number of time channels ~~(K1, ..., K6)~~ used by the device in question and/or the numbers of packet numbers $[[pi]]$ and/or numbers ~~(NRV)~~ of the redundancy version indicators $[[RV]]$ of the different time channels ~~(K1, ..., K6)~~ of the device in question.

Claim 36 (**Currently Amended**): The method according to claim 30, wherein during selection of the one of the plurality of different time channels ~~a time channel (K1, ..., K6)~~ for a pending transmission of a data packet, the plurality of time channels ~~(K1, ..., K6)~~ are prioritized according to their numbers of packet numbers $[[pi]]$.

Claim 37 (**Currently Amended**): The method according to claim 24, wherein a packet number distribution function $[(P)]$, which defines the numbers of packet numbers $[(pi)]$ assigned to the individual time channels ~~$(K1, \dots, K6)$~~ , is a monotonously increasing or monotonously decreasing function in respect of the channel numbers $[(KN)]$ of the available time channels ~~$(K1, \dots, K6)$~~ .

Claim 38 (**Currently Amended**): The method according to claim 24, wherein **a time channel the one of the plurality of time channels** ~~$(K1, \dots, K6)$~~ is selected for a pending transmission of a data packet according to a specific selection rule, taking into account when different combinations of channel numbers $[(KN)]$ and packet numbers $[(PN)]$ were last used.

Claim 39 (**Currently Amended**): The method according to claim 24, wherein a time channel ~~$(K1, \dots, K6)$~~ is selected for a pending transmission of a data packet taking into account temporal information relating to transmissions to date on the different time channels ~~$(K1, \dots, K6)$~~ .

Claim 40 (**Currently Amended**): The method according to claim 39, wherein **a time channel the one of the plurality of time channels** ~~$(K1, \dots, K6)$~~ is selected for a pending transmission of a data packet taking into account the use times to date of the different time channels ~~$(K1, \dots, K6)$~~ .

Claim 41 (**Currently Amended**): A mobile radio device, comprising:

means for transmitting a plurality of control parameters ~~(KN, PN, RV)~~ on a physical channel ~~[[PK]]~~ from the mobile radio device to a base station in a cellular network, wherein the control parameters ~~(KN, PN, RV)~~ are used for controlling a packet-oriented data transmission from the mobile radio device to the base station; and

a source-coding device for source-coding the control parameters ~~(KN, PN, RV)~~ before transmission, the control parameters ~~(KN, PN, RV)~~ including a packet number ~~[[PN]]~~ for identifying a data packet, wherein the source-coding device is configured such that the packet number ~~[[PN]]~~ is source-coded ~~at least~~ together with ~~a further~~ at least a further one of the control parameters ~~parameter~~ ~~(KN, RV)~~ for ~~[[the]]~~ transmission.

Claim 42 (**Currently Amended**): A base station, comprising:

means for transmitting control parameters ~~(KN, PN, RV)~~ on a physical channel ~~[[PK]]~~ from the base station to a mobile radio device in a cellular network for controlling a packet-oriented data transmission from the mobile radio device to the base station; and

a source-coding device for source-coding the control parameters ~~(KN, PN, RV)~~ before transmission, with the control parameters ~~(KN, PN, RV)~~ including a packet number ~~[[PN]]~~ for identifying a data packet, wherein the source-coding device is configured such that the packet number ~~[[PN]]~~ is source-coded ~~at least~~ together with ~~a further~~ at least one further of the control parameters ~~parameter~~ ~~(KN, RV)~~ for the transmission.

Claim 43 (**Currently Amended**): A mobile radio device, comprising:

means for receiving control parameters ~~(KN, PN, RV)~~ on a physical channel ~~[(PK)]~~ from a base station to the mobile radio device in a cellular network for controlling a packet-oriented data transmission from the base station to the mobile radio device; and

a source-decoding device for source-decoding the control parameters ~~(KN, PN, RV)~~ with the control parameters ~~(KN, PN, RV)~~ including a packet number ~~[(PN)]~~ for identifying a data packet, wherein the source-decoding device is configured such that the packet number ~~[(PN)]~~ is source-decoded ~~at least~~ together with ~~a further~~ at least a further one of the control parameters ~~parameter~~ ~~(KN, RV)~~.

Claim 44 (**Currently Amended**): A base station, comprising:

means for receiving control parameters ~~(KN, PN, RV)~~ on a physical channel ~~[(PK)]~~ between a mobile radio device in a cellular network and the ~~from a~~ base station ~~to the mobile radio device in a cellular network~~ for controlling a packet-oriented data transmission from the mobile radio device to the base station; and

a source-decoding device for source-decoding the control parameters ~~(KN, PN, RV)~~, with the control parameters ~~(KN, PN, RV)~~ including a packet number ~~[(PN)]~~ for identifying a data packet, wherein the source-decoding device is configured such that the packet number ~~[(PN)]~~ is source-decoded ~~at least~~ together with ~~a further~~ at least one further of the control parameters ~~parameter~~ ~~(KN, RV)~~.